

## Homework 4

*Instructor: David Gu***Sharad Sridhar - 111492675****Due by Monday, Dec. 4, 11:59pm.****Problem 5.18***Solution :*

- 5.35 can be written as :

$$\binom{r}{k} \binom{r-\frac{1}{2}}{k} = \frac{\binom{2r}{2k} \binom{2k}{k}}{2^{2k}}$$